



UNIVERSITY OF
TORONTO

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CALL FOR PARTICIPATION: MITACS SEEKS PROPOSALS

In 2010, 105 students from India took part in the Globalink program. The University of Toronto had 22 of the 47 students who were interning in Ontario. MITACS is inviting faculty from across the disciplines who are eligible for tri-council funding to submit proposal ideas within Ontario's strategic research priorities. For more details: www.mitacs.ca/index.php?option=com_content&view=article&id=1235&Itemid=182&lang=en

WWW.NEWS.UTORONTO.CA/BULLETIN.HTML

THE BUZZ ON CAMPUS
Environmental initiatives
are the bees knees
— page 7

SEPTEMBER 14, 2010 54th year, number 3

the Bulletin

I'M RUNNING.



The Honourable
David R. Peterson
Chancellor, University of Toronto

CIBC Run for the Cure
CANADIAN BREAST CANCER FOUNDATION

When Chancellor David Peterson gets behind a cause, he goes all out. Peterson is honorary chair of the 2010 Toronto run and will also moderate the Sept. 21 breast cancer-focused Breakfast With the Bulletin.

RUN FOR THE CURE REGISTRATION AS EASY AS 1, 2, 3

BY AILSA FERGUSON

The Canadian Breast Cancer Foundation CIBC Run for the Cure takes place at U of T St. George and U of T Mississauga Oct. 3 and organizers are hoping for a record number of participants from the university community.

"We are deeply appreciative of the enthusiastic support we have received," said Sandra Palmaro, chief executive officer of the Canadian Breast Cancer Foundation — Ontario Region. "U of T has embraced the run not only at their Mississauga campus but at their St. George campus in downtown Toronto, which is the new home for the Toronto run. We welcome this collaboration with the university and the synergies it brings to the run and our efforts in raising money for innovative research funded by the foundation."

U of T is also a participant in this year's new University Challenge, a program that pits Ontario universities against one another, competing for bragging rights in terms of money raised and numbers of participants. To date, there are a number of U of T teams registered for the run, including teams from U of T Scarborough, the U of T central administration, human

...**RUN** ON PAGE 4

Northern Lights Initiative shines at UTM

BY KELLY RANKIN

Last year Student Housing and Residence Life staff at U of T Mississauga decided they wanted to include a service-learning event in their co-curricular programming. They had the budget and were keen to do something, but they were missing one key ingredient — a topic.

The idea for a topic came after **Beth Spilchuk**, then community development officer, and **Nic Weststrate**, student development officer for Student Housing and Residence Life at UTM, along with a few other staff and students, participated in the Anishinawbe fall ceremonies in Curve Lake, Ont. (near Peterborough) last October.

The trip to Curve Lake, organized by **Michael White**, student transition officer at the International Student Centre (now the Centre for International Experience) on the St. George campus, was an opportunity for students to participate in a First Nations traditional ceremony where the Anishinawbe people come together and affirm the good things that have happened since the spring through the sharing of ceremonial pipes and singing of songs.

Weststrate said the ceremony had such an impact on the students that they

immediately knew they had a topic for their service-learning event. "The students said, First Nations people, their history and culture needs to be the focus of our event, they picked the topic and defined their own event," noted Weststrate.

The event, titled Experiential Journey, took place over three days in April. Fifteen students, accompanied by Weststrate; White and Cat Criger, a teacher and elder affiliated with First

Nations House, travelled to Curve Lake to participate in the spring ceremony and to visit the Whetung Art Gallery and Cultural Centre and the Petroglyphs Provincial Park. The program attracted both domestic and international students from various programs of study: English, religious studies, history and biology.

Their excursion began with a show

...**NORTHERN** ON PAGE 4

Dean to host open discussions of arts and science academic plan

BY KIM LUKE

The Faculty of Arts and Science is holding town hall-style forums in September to discuss its five-year strategic plan.

"These town halls will be an invaluable part of our ongoing consultation process," said Professor **Meric Gertler**, dean of the Faculty of Arts and Science. "One of our goals is to identify new organizational structures that reduce costs, while preserving excellence in scholarship and teaching."

Since the plan was publicly released in July, the dean has been meeting with

chairs and directors, as well as faculty, staff and students. "We have extremely intelligent and creative people in our community and we want to ensure we have a full and genuine deliberation of the proposals in the plan as well as any possible alternatives," said Gertler.

The Faculty of Arts and Science Academic Plan 2010-2015 (www.artsci.utoronto.ca) is the result of the review and synthesis of plans submitted by all units within the faculty, as well as the Arts and Science Students' Union, and consultations with a wide range of alumni.

...**ARTS** ON PAGE 3

LETTER FROM THE EDITOR

Generally ...

I use this space to discuss the ideas highlighted in the stories the issue has to offer, but I am breaking with tradition in this issue to address a topic that has an impact on our daily workdays: workplace email etiquette.

As editor of both *the Bulletin* and the online eBulletin, I monitor the email that is sent to the inboxes for each of those publications. I receive the type of email one would expect: story pitches, events notices, advertising inquiries and subscribe or unsubscribe requests. It's the latter that take me most often into poor email etiquette territory, and there are lessons to be drawn from these missives.

Frequently, the authors of unsubscribe emails forget that the email will be read by a human being at the other end of the cyberspace connection. Hence, the emails that read, Unsubscribe me from this expletive-ing publication, or Stop sending me this expletive. Last week, I had the pleasure of opening an email that had unpleasant things to say about the institution distributing the information.

I don't take these lovely emails personally but reading them makes me realize how unaware email users seem to be about the etiquette of email — or correspondence of any type, for that matter.

The first rule of workplace email etiquette is: **Don't send an email that says anything you wouldn't want to see as a headline in the *Globe and Mail*.** Email may feel private, since you're sending it personally, but once it's out in the ether, you have no control over where it ends up. The recipient can forward it to anyone and everyone — and they may do so. So, if you send a nasty email or a profane one be prepared to accept consequences you may not have anticipated.

The second rule of workplace email etiquette says: **Don't send an email in anger or frustration.** Wait an hour or a day until you have cooled off and reread your email. You will quite likely be surprised by what you've said and will either reword it or delete it altogether. Ignore rule #2 and rule #1 may come back to bite you.

Finally, remember that **there is a human being receiving and reading your email.** Just because the email may be addressed to a generic address (e.g., bulletin@utoronto.ca), it doesn't mean that it is read by a machine. It's all very well to vent but taking your anger out on someone you can't see and don't know really isn't appropriate.

Email etiquette can be as simple as rules 1, 2 and 3. Ignore them at your peril.

Cheers,

Elaine

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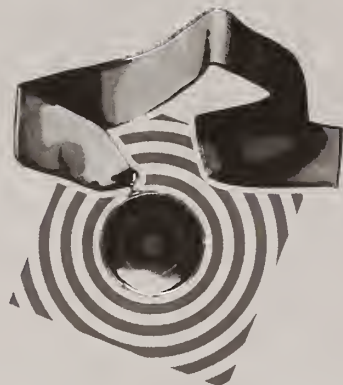
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AWARDS & HONOURS

and comparative law, international human rights and the criminal law of obscenity and indecency, Cossman has generated interest in these issues among academics and the public and has influenced developments in the law. The medal was presented June 17 by Attorney General Chris Bentley.

Professor Kent Roach is the winner of a Lexpert® magazine 2010 Zenith Award. The awards honour leading Canadian law firms, in-house departments and law students and scholars who commit time, skills and mentorship to a range of pro bono activities. Roach was recognized for his work relating to interventions in Supreme Court of Canada cases involving constitutional remedies and miscarriages of justice. He receives a platinum award, the awards program's highest level. Roach will receive the award at the Lexpert® Zenith Awards Sept. 28, being held at the Fairmont Royal York hotel.

FACULTY OF MEDICINE

Professor Yeni Yücel of ophthalmology and vision sciences is this year's recipient of the Lewis Rudin Glaucoma Prize, recognizing the most significant scholarly article on glaucoma published in a peer-reviewed journal in the prior calendar year. Yücel received the \$50,000 US prize, announced Aug. 3 by the New York Academy of Medicine, for his research resulting in the article Identification of Lymphatics in the Ciliary Body of the Human Eye: A Novel Uveolymphatic Outflow Pathway, published in *Experimental Eye Research*.

LESLIE DAN FACULTY OF PHARMACY

Professor Carolyn Cummins is the winner of the GlaxoSmithKline/Canadian Society for Pharmaceutical Sciences Young Investigator Award, presented annually to a pharmaceutical scientist to recognize outstanding research achievement and contribution in the first seven years following graduation from a doctoral degree program. Cummins received the award June 4 during the society's symposium in Vancouver.

COMPILED BY AILSA FERGUSON

FACULTY OF APPLIED SCIENCE & ENGINEERING

Professor Andreas Moshovos of electrical and computer engineering is the winner of the 2010 Maurice Wilkes Award, the only mid-career award offered by the Association for Computing Machinery's special interest group on computer architecture (ACM SIGARCH) and given annually for an outstanding contribution to computer architecture made by an individual in a computer-related profession for 20 years or less. Moshovos received the award June 22 during the International Symposium on Computer Architecture in Saint Malo, France, for his contributions to the development of memory-dependence prediction.

FACULTY OF DENTISTRY

Professor Richard Ellen, cross-appointed to laboratory medicine and pathobiology, received an honorary doctor of medicine degree from Linköping University May 22 in Sweden in recognition of his leading research into bacterial-host cell interactions as a means to understand infection and immunity to the complex etiology of periodontal diseases. He was especially recognized for his promotion of interdisciplinary and international collaboration in health research training and his long-term record of personal collaboration with Swedish scientists.

FACULTY OF LAW

Professor Brenda Cossman, director of the Mark S. Bonham Centre for Sexual Diversity Studies, is one of two recipients of the David W. Mundell Medal, created in 1986 by former Ontario attorney-general Ian Scott to honour members of the legal profession who have made an exceptional contribution to legal writing. An internationally acclaimed expert in law and sexuality, feminist legal studies, family

JOIN THE DEAN
in a conversation about
the Faculty of Arts & Science
Academic Plan 2010 — 2015

TOWN HALL FORUMS

EVERYONE WELCOME

Thurs. Sept. 23, 4 – 6 pm
Mon. Sept. 27, 4 – 6 pm
OISE Auditorium, Room G162
Ontario Institute for Studies in Education
252 Bloor Street West

READ THE PLAN AT
www.artsci.utoronto.ca



UNIVERSITY OF TORONTO
FACULTY OF ARTS & SCIENCE

Nurturing teens leads to success

BY JENNIFER LANTHIER

It's a campus cliché that the students seem to get younger every year, but if some of those faces look particularly youthful, relax. It's not you, it's the students.

Every year, the Faculty of Arts and Sciences arranges research opportunities at the university for a select number of gifted high school students. Stephanie Gaglione, who turns 16 this month (September) won a bronze medal at the Canada-Wide Science Fair in May for a green roof project she developed under the mentorship of Professor **Brad Bass** of the Centre for Environment.

"I've always loved science and I've always done my own projects but I really wanted to take it to the next level," Gaglione said. "So I decided to enrol in the mentorship program and it was one of the best experiences of my life."

"I started off working on a green wall but when they took me up to see the work on green roofs, I was really inspired to see what else we could do with them. A lot of people try to grow food in their backyards and if the soil is contaminated they can't really do that, so being able to grow it on a roof

would be a much better alternative."

Growing organic vegetables in shallow, ultra-light panels meant Gaglione had to find a way to boost nutrients in the soil. Using an accelerated bacterial process she had developed for an earlier project on bioremediation, Gaglione created a compost tea that could deliver water and nutrients to the soil simultaneously. Plants such as kale, lettuce and shallots thrived despite the lack of soil and commercial fertilizer.

"Essentially, we could grow our foods in panels that are only an inch thick and get good quality food that's organic, and at the same time we're using our waste," said Gaglione. "It's an interesting prospect for the urban environment because we're not using as many materials, we're not having to transport our food 2,000 kilometres, we don't have to purchase fertilizers, there's no refrigeration — and there's very little labour or maintenance involved."

Gaglione is part of a trend, said Caroline Rayfield, executive director of the charity Youth Science Ontario, which supports science fairs.

"We're seeing kids doing more and more sophisticated work," said Rayfield. "Some of

these high school students really are doing work at a graduate level and they need support and access to resources, technology and mentors like Dr. Bass."

Gaglione's project, which won several awards at the York Region Sci-Tech Fair including a gold medal, also elicited an invitation to attend the National Youth Science Fair in Australia next January.

"The quality of students who come through the mentorship program is extraordinary," said Bass. "We don't normally take a student as young as Stephanie but she had already won a silver medal in the Canada-Wide Science Fair and after talking with her I agreed."

Travelling from Vaughn to the St. George campus once a week after school wasn't easy but "having access to the research and the advice was great" said Gaglione, adding she'd happily enrol in the mentorship program again.

"It was a bit of a drain on homework but since I was still in Grade 10 that wasn't as much of an issue as it would have been if I'd been in Grade 12," said Gaglione, who attends St. Robert Catholic High School. "Some nights I spent four hours just measuring vegetables."



Stephanie Gaglione grew plants on a rooftop using a compost tea she designed that delivered water and nutrients simultaneously; she received an Environment Canada citation for her work.

Arts and science town halls planned

CONTINUED FROM PAGE 1

A strategic planning committee representative of all the major sectors within the faculty created a plan that proposes to reinvigorate the faculty by focusing on its unique strengths. This includes:

- taking full advantage of unique disciplinary breadth across humanities, social sciences and sciences
- leveraging excellence in research and graduate

education

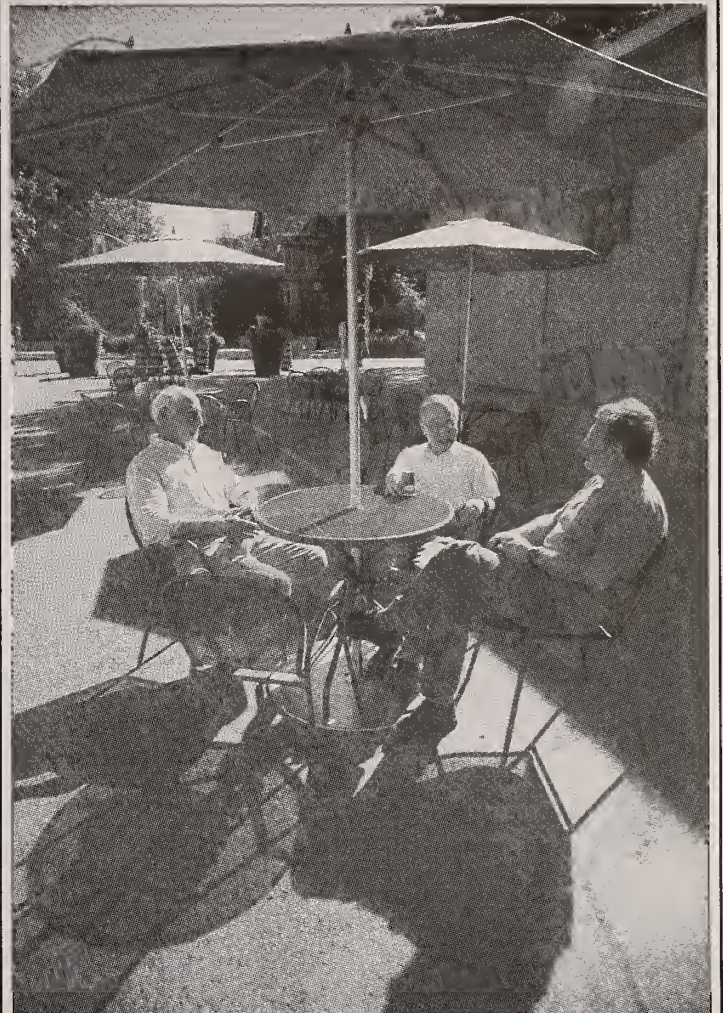
- enhancing the student experience
- capitalizing on a unique system of college communities
- engaging with the global and local communities.

Among the plan's recommendations are more international and research opportunities for undergraduate students and new thematic interdisciplinary Big Ideas in Arts & Science courses, which would be team

taught by professors from the humanities, social sciences and sciences. The plan also recommends closer collaboration between graduate-only or research-only units with undergraduate education and a new School of Languages and Literatures.

The town halls will be held at OISE's main auditorium on Thursday, Sept. 23 and Monday, Sept. 27 from 4 to 6 p.m. and are open to all.

Walk this way to Willcocks Commons



DIANA MCNALLY

Willcocks Commons offers the perfect spot for coffee and a chat.

BY KELLY RANKIN

Wondering about the patio furniture on Willcocks Street and Devonshire Place? Another movie set, maybe a street party? If you picked street party, you're almost right.

On Sept. 15 the university will host the Field to Fork Festival to mark the official launch of the Willcocks Commons, an informal open space designed for the university community.

Both the commons and Devonshire Place are part of a pedestrian zone pilot project implemented by the City of Toronto Transportation Services, public realm section, in collaboration with the University of Toronto, as part of Toronto city council's Toronto Walking Strategy.

"It's a wonderful example of a partnership between the university and the City of Toronto, where the focus has been on the well-being of the campus," said **Elizabeth Sisam**, assistant vice-president (campus and facilities planning).

The pedestrian-only area on Willcocks Street is in place for a one-year trial period that began Sept. 7 and the area on Devonshire Place will remain until Oct. 8 with the possibility of a second trial period beginning in the spring of 2011.

The university is also working with the city to introduce



a "scramble" at the Hoskin-Harbord and St. George intersection, allowing pedestrians to cross on the diagonal, mirroring the crossing at Dundas and Yonge streets. The scramble may be in place by early October. All pilot projects will be closely monitored by the city and U of T to ensure they are well used and don't cause any disturbance to the local constituents.

The pilot projects are an opportunity to re-imagine the street as an interactive, convivial environment where people are free to engage public space in new ways. Elements such as planters and street graphics, plus movable chairs and tables, make it possible to create distinct areas along the length of the street, allowing for a variety of activities to take place simultaneously.


For example, the flexible street space will accommodate a weekly farmer's market, while friends meet for lunch or students stop by to work on assignments or surf the Internet out-of-doors.

How about a pick-up game of basketball? Thanks to the university's top basketball fan — President **David Naylor** — two basketball hoops will be installed at the Huron Street end of the Willcocks Commons.

The commons is available for university activities; bookings can be made through the office of space management.

entrepreneurship 101



The Journey Begins
September 29, 2010
MaRS Auditorium, Wednesdays 5:30 - 6:30pm

To register for this **FREE** course, visit www.marsdd.com/ent101

RUN FOR THE CURE REGISTRATION EASY

CONTINUED FROM PAGE 1
resources, pharmacy, human resources and physical education.

However, the sky's the limit in terms of numbers, said campus co-ordinator **Elaine Smith**, editor of the *Bulletin* and *eBulletin*.

"Breast cancer research can use as much support as we are able to provide," Smith said. "Given that much of the university's breast cancer research is sponsored by funds raised at this event, it would be wonderful to see our participation numbers explode."

Anyone who has participated in a previous run knows that you feel good about making a contribution while having a good time. It's fun to spend the morning with friends or colleagues — and who doesn't

enjoy earning a T-shirt and getting a free breakfast?"

Registration for the run can be done online at www.cbcbf.org. It may look complicated, but it's not, once you know the steps to take:

1. Click on the Register button
2. Click on the run site named in the Ontario listing, either Toronto or Mississauga
3. Choose the option of registering individually, starting a team or joining a team
4. If you're **registering individually**, make sure to use your utoronto email address so your participation can contribute to the university challenge
5. If you're **joining an existing team**, type in the team name and the University of Toronto affiliation and choose the Ontario University

Challenge for team type 6. If you're **starting a team**:

- Choose a team name, preferably one with U of T in the title
- Choose University of Toronto as your affiliation
- Select Ontario University Challenge as the team type
- Set a team fundraising goal (e.g., 10 team members x \$40 registration = \$400)
- Follow additional steps as noted, including naming a team captain.

Since 1992, Run for the Cure has grown from a single-site run in Toronto to a nationwide event. Last year, the run raised more than \$26.5 million in 56 communities across the country. With U of T's assistance, the foundation hopes to beat that record in 2010.

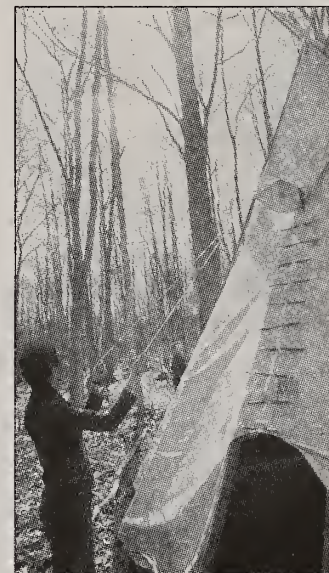
Northern Lights Initiative shines

CONTINUED FROM PAGE 1

of appreciation, a way of giving thanks to the Anishinawbe people for supporting their journey. Participants helped prepare the grounds and the lodge, stacked firewood and erected tents for the ceremony. They also contributed a portable washroom and food for the Curve Lake communities' fasting camp.

Each destination on their journey brought students together with First Nations people and gave them an opportunity to learn first-hand about First Nations history and experiences. Among the First Nations people they met were Doug Williams, a native elder, caretaker of ceremonial lands and keeper of the petroglyphs, who explained the sacred meaning of the native rock carvings. At the Whetung gallery, artist-in-residence Freddy Taylor shared his own traumatic story of growing up in a residential school.

Afterward, the Experiential Journey participants were asked to complete a survey that asked them to reflect on their experi-



UTM student Silu Wang helps raise a teepee.

ence. One student wrote, "To experience real life [aboriginal] teachings, going to the Petroglyphs and even setting up for ceremonies was a once in a lifetime experience that I will never forget."

Other events were planned throughout the year, in addition to the Curve Lake ceremonies. Students were invited to attend

the Canadian Aboriginal Festival and two workshops co-hosted by First Nations House: a hand drumming circle and teachings and a language and learning event, Ojibwe Speed Dating, where participants were taught the language and proper etiquette of introducing themselves to other First Nations people.

Collectively, the events came to be called the Northern Lights Initiative. Weststrate and Spilchuk received the U of T's Stepping Up (now Excellence Through Innovation) Award for their efforts and NLI was voted program of the year by the Ontario Association of College and University Housing Officers.

This year, there's no question about the focus of residence life's service-learning program. Weststrate will begin promoting this year's Northern Lights Initiative as soon as students have settled into residence. The program is open to all non-native students living in residence at UTM and will include all of the events mentioned above, plus bi-weekly teaching circles lead by Cat Criger.

CAT CRIGER

Sunnybrook Speaker Series
Family Practice Unit, Department of Family & Community Medicine

Sunnybrook's Secrets to a Long and Healthy Life

Join us for an evening talk on Disease Prevention
TUESDAY, SEPTEMBER 28, 2010 6:30 – 8:30 P.M.

Leading experts from Sunnybrook's Department of Family & Community Medicine will discuss:

- **The Role of Screening:** Dr. Sharon Domb, Medical Director, Family Practice Unit, Department of Family & Community Medicine
- **Nutrition:** Taking a Look at What, When, How Much and Why: Jasmine Arellano, Registered Dietitian, Family Practice Unit, Department of Family & Community Medicine
- **Sleep and Disease Prevention:** Dr. Puri Papneja, Family Physician, Family Practice Unit, Department of Family & Community Medicine
- **The Importance of Exercise:** Dr. Jocelyn Charles, Interim Chief, Department of Family & Community Medicine

Moderator: Judith Manson, Patient Care Manager, Family Practice Unit, Department of Family & Community Medicine

Please RSVP your attendance by September 27, 2010
Phone: 416.480.4117 e-mail: speaker.series@sunnybrook.ca

Free Admission Free Parking, Garage One

Tuesday, September 28, 2010 6:30-8:30 p.m.
McLaughlin Auditorium, Bayview Campus
E Wing Ground Floor, 2075 Bayview Avenue

 **Sunnybrook**
HEALTH SCIENCES CENTRE



UNIVERSITY OF TORONTO SCHOOL OF GRADUATE STUDIES

There are two vacant seats on the Graduate Education Council: one Faculty, one Student. The Graduate Education Council is responsible for establishing policies and procedures concerning the administration and quality of graduate studies at the University of Toronto.

The Graduate Education Council considers:

- policies affecting graduate studies
- new degree program proposals
- changes in admission and major program requirements
- other matters, as appropriate

Nomination forms are available from:

- SGS Website (address below)
- School of Graduate Studies

Eligibility:

Nominees must be full members (non-Emeritus) of the graduate faculty or registered graduate students in the SGS division in which they have been nominated.

GRADUATE EDUCATION COUNCIL Fall 2010 By-Election Call for Nominations

Vacant Seats (2):

- 1 Faculty Member of a graduate unit in Humanities
- 1 Graduate Student in Humanities

Terms of Office:

Terms begin July 1, 2010. The first meeting of the academic year is usually held in October.

Faculty members normally serve for three years.

Students may opt for a one- or two-year term of office, to a maximum of three consecutive years.

NOMINATIONS CLOSE AT 5:00 PM TUESDAY, September 21, 2010

For more information contact: Governance Officer, School of Graduate Studies, 65 St. George Street, Toronto, ON, M5S 2T9
www.sgs.utoronto.ca/governance/gec/elections.htm • sgs.governanceofficer@utoronto.ca • Tel: 416 946-3427 • Fax: 416 978-1649

Researchers lead study to explore individualized smoking cessation treatments

BY PAUL CANTIN

Quitting smoking is hard and researchers at U of T and the Centre for Addiction and Mental Health (CAMH) have discovered one reason why: it's in the genes.

Each smoker has a different genetic makeup, which influences their response to different treatments to help them quit. Now these researchers plan to determine how to best personalize treatments to maximize the effectiveness of smoking cessation efforts.

Millions of adults in North America try to quit smoking every year but the success rates of smoking cessation treatments vary widely. And there are no personalized approaches to helping smokers quit that have been translated into clinical practice.

The international study, led by Professor **Rachel Tyndale** at U of T and CAMH and Professor Caryn Lerman at the University of Pennsylvania, will investigate the pharmacogenetics of nicotine addiction treatment. It is backed by a \$12-million (US) grant through the National Institute of Health's Pharmacogenomics Research Network initiative, a group of scientists from across North America focused on understanding how genes affect a person's response to medicines.

Previous research led by Tyndale identified a genetically informed marker that reflects individual differences in how quickly nicotine breaks down in the body. This biomarker can be used to predict the success of different smoking cessation treatments for individual smokers. The new

study will determine how to translate this biomarker into clinical practice.

"This marker has the potential to help clinicians choose the best medication for people trying to quit, based on their genetics, and thus improve cessation response," said Tyndale, a professor of pharmacology at U of T and Canada Research Chair in Pharmacogenetics and head of pharmacogenetics at CAMH. "This is the first prospective randomized trial using a genetically informed biomarker to optimize smoking treatment on an individual level."

The biomarker, referred to as the nicotine metabolite ratio (NMR), reflects genetic variation in the CYP2A6 gene, as well as environmental influences on nicotine metabolism. In this study, 1,350 adult smokers will have their NMR assessed to determine whether they metabolize nicotine slowly or quickly. They will then be sorted into two groups — slow metabolizers and normal metabolizers — and randomized to treatment with either a placebo, a nicotine patch or Pfizer's Chantix (varenicline). Each participant will also provide genetic material (DNA) that will be used to identify additional gene variants that may also contribute to the nicotine addiction treatment response. The prospective double-blind placebo controlled trial will be completed within the next four years.



Genetic makeup influences an individual's response to smoking cessation treatments.

\$9.2 million to U of T for social sciences and humanities research

BY JENNIFER HSU

U of T will receive \$9.2 million for 115 projects focused on improving the quality of life for Canadians. The investment comes from the Social Sciences and Humanities Research Council of Canada (SSHRC) by way of its Standard Research Grants (SRG) — the council's most popular and primary funding tool.

The average grant awarded to researchers across Canada is \$74,000. At U of T, the average per recipient is \$80,500.

"Social sciences and humanities show us how to harness and interpret innovation from a human perspective, which translates into benefits for society," said Tony Clement, minister of industry.

Resources made possible through SRG directly contribute

to the economic and social success of communities, environment, innovation and leadership.

"Congratulations to our professors and thank you to the Government of Canada and SSHRC, as U of T's SRG market share increased by 2.7 per cent. The government's commitment to social sciences and humanities research will no doubt motivate future world changing ideas and innovations," said Professor **Paul Young**, vice-president (research).

Some of the research funded at U of T will examine:

- parent knowledge and parent-child communication
- implications of Canadian public-private partnerships within a global perspective
- setting government priorities in Canada, Germany and the U.S.

Joan Grusec, for example,

a professor in the Department of Psychology, seeks to uncover the determinants of parenting and the impact of different kinds of parenting on children's social and emotional outcomes. "Lack of knowledge about how to successfully help children learn to function well in society is one variable that determines parenting effectiveness. But there are other reasons for problematic parenting that are not so straightforward. As a result, we're particularly interested in cognitions — both conscious and unconscious — and emotions that interfere with the ability of parents to apply their knowledge of how to raise children," said Grusec.

For a complete list of grant recipients, visit <http://www.sshrc-crsh.gc.ca/results-resultats/2010/srg-sor.pdf>.

U of T study shows infants can remember emotional events



TONY GRAY

BY LAURIE STEPHENS

A new study led by a U of T Scarborough psychologist shows that human infants can remember unusual emotional events.

Investigating the impact of relationship disruptions on stress regulation in infants, researchers asked parents to briefly ignore their six-month-old infants during an experiment, which caused an elevation in infant stress hormones, said professor

David Haley, a psychologist at U of T Scarborough and the lead investigator of the study.

To see whether infants would remember this episode of parental unresponsiveness, infants were re-exposed to the same context after 24 hours. Although parents did not ignore their infants on this second day of the experiment, the infants demonstrated an anticipatory stress response, as evidenced by an elevation in cortisol, a stress hormone. Overall levels of stress hormones were lower on the second day compared with the first day, however, suggesting that infants can anticipate the stressful event based on expectations about how their parents will treat them, but are able to adapt to the stressor.

"The capacity to adapt to changes in parenting may be an evolutionary advantage that contributes to the reciprocal nature of the parent-infant relationship in humans," said Haley.

The results of the study are published on Aug. 25 in the Royal Society journal *Biology Letters*.

"What the new data make clear," said Jay Belsky, director of the Institute for the Study of Children, Families and Social Issues at Birbeck University of London, "is that the infant does, indeed, remember in some manner how stressful life is and, in line with attachment theory, develops expectations about the future."

Clyde Hertzman, director of the Human Early Learning

Partnership (HELP) at the University of British Columbia, said the research helps explain the biological basis of bonding and attachment because it shows that children as young as six months have the capacity to remember stressful events in intimate contexts.

"Most important, it helps us to understand why social and emotional deprivation in the first year of life can have profound long-term impacts on child development and mental health," said Hertzman.

Haley said researchers are only beginning to understand the basic mechanisms that enable human infants to anticipate, remember and adapt to unusual emotional events in an attachment context. It remains unknown whether the memories that trigger the anticipatory stress response are located in the mind or body.

"It isn't clear where or how the information is being retained," said Megan Gunnar, professor of psychology of the Institute of Child Development at the University of Minnesota. Rather than suggesting that "the child can 'think' about yesterday," she said, "I might shift more to the wisdom of the body [the child's stress system retains the experience]."

The study also suggested that behavioural and physiological components of the stress system are loosely coupled. Haley said that each component of the stress system "may adapt according to different schedules."

"The memories that activate each component of the anticipatory stress response may not be in sync, and specific memory cues may be needed to activate each component of the stress response. For example, the infant might have to sit in the chair again before his or her negative affect increases, whereas simply seeing the chair causes the release of stress hormones."

Haley is conducting further studies on the persistence and stability of the infant anticipatory stress response.

The making of molecules



STEPHEN UHRANEY

Professor Patrick Gunning in his lab at U of T Mississauga.

BY CARLA DEMARCO

For Professor Patrick Gunning of chemical and physical sciences at U of T Mississauga, working with molecules to develop innovative cancer therapeutics has been a driving force behind his work for the past six years. Now with an Early Research Award (ERA), which secures the significant sum of \$150,000 from the Ministry of Research and Innovation, he has funding to further explore this area with the project Developing Novel Uba1 Molecular Therapeutics: Suppressing the Side-Effects of Aggressive Chemotherapy.

"Making molecules that impact the human condition is a huge motivation," Gunning said. "In particular, my molecular efforts have focused on targeting the aberrant activation of specific

proteins that directly contribute to cancer progression." Gunning's study is primarily concerned with inhibiting the Ubiquitin E1 activating enzyme (Uba1), which has proven to be successful in killing cancer cells, leaving normal cells unharmed, and in helping to delay tumour growth in leukemia studies.

Working in collaboration with Dr. Aaron Schimmer, a researcher with Princess Margaret Hospital, Gunning's ERA-funded project will continue to explore Uba1, further analyzing inhibitors that induce cell death and help to determine the basis for cancer-cell selectivity.

"The development of Uba1-specific inhibitors would be of incredible importance to Ontario's chemical, biological and drug-discovery industries, as well as patients in the clinic," explained Gunning. "Successful validation of these agents as

viable stand-alone or adjuvant therapeutics will be of tremendous value to the many Ontarians who suffer greatly from the significant adverse side effects associated with aggressive chemotherapy."

Alleviating the various discomforts from cancer treatment is one aspect of this project but the researchers are also interested in investigating the fact that current chemotherapy treatment does not work for everyone. Based on today's incidence rates, Gunning estimates that of the 7,000 Ontario residents diagnosed with leukemia and lymphomas last year, some 2,500 will not respond to traditional chemotherapy.

"Increasing resistance to conventional methods of chemotherapy necessitates that innovative drug discovery programs remain a high priority in Ontario-specific research," said Gunning. While studies have shown that there have been marked improvements in the areas of detection, treatment and survival, Gunning stated that further work on ways to prevent "carcinogenesis," which is the process of normal cells transforming into cancer cells, also needs to be explored.

Gunning started working in cancer research while doing post-doctoral research at Yale University in 2004.

His supervisor at the time, Professor Andrew Hamilton in the Department of Chemistry, significantly influenced Gunning's current research path.

"Professor Hamilton was instrumental in opening my eyes to the dynamic and exciting field of chemical biology," Gunning said. "It is an extremely challenging area of medicinal chemistry and I think this actually made me more determined to enter this field of research."

HIRSCHL LAYS DOWN THE LAW ON TEACHING

BY SEAN BETTAM

Like a well-ordered society that functions effectively and productively, Professor **Ran Hirschl**'s classroom is one built on a system of laws and tenets that provide the foundation for his approach to teaching. The ultimate goal of this classroom constitution is to transform students at all levels into true cosmopolitan citizens of the world and encourage them to think analytically and creatively about the political universe, the forces that drive it and their roles in it.

"I chose this as a vocation, really, not as a profession," said political science's Hirschl, a recipient of a 2010 Outstanding Teaching Award from the Faculty of Arts & Science. "A significant part of our collective mission here is to take people at level X and do whatever it takes to make sure that within two, three, four years they become better educated and well equipped for success in their professional life, whatever they choose."

Hirschl is an internationally renowned scholar of comparative constitutional law and politics but teaching remains his top priority. He is a great believer in well-organized and focused work being fundamental to the achievement of one's academic goals.

"Even the greatest minds cannot



Professor Ran Hirschl

realize their talents if they do not put the absolute maximum effort into their studies, to the extent that their circumstances permit," Hirschl said.

Hirschl also places great value in what he calls "factual grounding."

"Familiarity with major historical and contemporary events, facts and developments pertaining to domestic and international politics, economics and law are a precondition for successful learning in political science," Hirschl said. "It is also a key for sustaining participatory democracy and for promoting active and well-informed citizenship — two fundamental goals of public post-secondary education.

"My main undergraduate teaching has been in the area of public law in

Canada and elsewhere, so it provides ample opportunities to cater to all levels of students," Hirschl explained. "It is important to make sure that each person knows what our constitution looks like, how it has evolved and has been interpreted, what does it mean and how it fares in comparison to other countries' constitutional orders and traditions.

"It's a big institution so you want to provide aspiring students with the notion that they are worthy, potential scholars and they have something serious to say."

Hirschl also makes an effort to instill in his students the notion that public speaking and concise, effective writing are significant aspects of whatever professional career they choose. He said his primary goals are high quality teaching and dedicated contribution to the enhancement of student life within and beyond the classroom.

"When all is said and done, you have a hundred curious kids under your jurisdiction for a year ... make the best possible use of it in a positive way," said Hirschl. "You have this wonderful opportunity to shape their lives forever; to provide them with this little something that three, five, 10 years after they leave U of T, they'll remember that it was a positive experience."



Breakfast With the Bulletin takes on breast cancer

BY AILSA FERGUSON

Start the academic year off right by eating a good breakfast— with *the Bulletin*.

The quarterly faculty-staff speaker series is back with a Sept. 21 event focusing on breast cancer research in conjunction with the upcoming CIBC Run for the Cure. U of T will host the Oct. 3 Toronto run, with the start and finish lines located on King's College Circle. The City of Mississauga run will start and finish on the U of T's Mississauga campus.

The Canadian Breast Cancer Foundation, organizer of the run, raises millions each year for breast cancer research and funds researchers at universities nationwide.

"Right here in Toronto, over \$20 million has been granted by the foundation to breast cancer researchers on U of T's faculty in the last decade alone," said President **David Naylor**.

Breakfast With *the Bulletin* will highlight some of this sponsored research by featuring Professors **Lori Bernstein** and **Ruth Heisey**.

Bernstein is a neuropsychologist working with the Palliative Care & Cancer Survivorship Program at Princess Margaret Hospital who studies the effects of chemotherapy on cognitive abilities. Heisey is a family practitioner at Women's College Hospital and a general practice oncologist at Princess Margaret Hospital. She is exploring breast cancer prevention and detection strategies.

The breakfast will also feature breast cancer survivor Linda O'Leary, who will discuss her own experiences with the disease. Chancellor **David Peterson**, the honorary chair for the Toronto run, will serve as moderator for the event.

"Learning more about the breast cancer research happening at U of T is a fascinating prospect," said **Elaine Smith**, editor of *the Bulletin*, "and hearing from a survivor should help us understand that the work being done isn't simply abstract laboratory work; it has a real impact."

The Breakfast With *the Bulletin* lecture series is designed to offer faculty and staff food for both body and mind while strengthening a sense of community on campus. The Sept. 21 event takes place in the Hart House Music Room with breakfast beginning at 7:30 a.m. and the program running from 8 to 8:45 a.m. It is free to all faculty and staff but reservations are required since space is limited.

Reserve your space by sending an email request to bulletin@utoronto.ca by Sept. 17.

UNIVERSITY A-BUZZ

BY JENNIFER LANTHIER

September's influx of students always transforms the university into a hive of activity but if campus seems to be buzzing more than usual, it's not your imagination.

More than 250,000 bees are quietly hard at work in a total of eight hives tucked away on the rooftops of New College, Trinity College and U of T Scarborough.

"When I heard about the hives I was delighted," said New College principal **Yves Roberge**. "It sounded so appropriate for New College — like our students, the bees go out into the community, serve the community and return enriched by what they've found — we could go on endlessly about the imagery, the bees as a metaphor."

New College boasts the most established hives, installed in the summer of 2009 by local beekeeper Brian Hamlin, who also installed hives at Scarborough this past May. On June 2, Hamlin helped a group of students and bee enthusiasts install hives at Trinity, turning over the care and maintenance of the bees to the group once the hives were safely installed.

"We're trying to show that beekeeping is something anyone can do," said Trinity undergraduate **Rachel Korman**. "And for people who've never been exposed to anything like this, it's an amazing opportunity."

The college had no qualms about supporting the hives, said Trinity bursar **Geoffrey Seaborn**.

"Urban beekeeping is happening all over the world," he said. "And this fits nicely with Trinity's efforts to be more environmentally responsible."

Choosing the right location was key, Seaborn said on a recent visit to the hive. Tucked away atop one of Trinity's crenellated towers, the hives provide the bees with a quick and easy flight path to green space.

"Part of the deal is that the students and the beekeeper will raise and lower the flag so our maintenance guys don't have to deal with it," he said. "Although you can see the bees are quite calm and not interested in us — they just want to head out over Philosopher's Walk."

Rooftop hives also seemed a good fit at U of T Scarborough, said **Frances Wdowczyk**, special adviser to the chief administrative officer (operations and special projects).

"Our campus is a trailblazer in environmental sciences," said Wdowczyk. "Our research folks would like to tie this into other opportunities we have with food, sustainability and environmental sciences overall but we just installed the hives — we're still trying to figure out how to utilize this living laboratory."

In the meantime, the four hives atop the Management Building are out of the way of pedestrians yet easily accessible to students and researchers, Wdowczyk said.

"Our property is quite large and we have a very broad green space so we've situated these hives so their flight path can take advantage of the incredible green valley below," she said. "We're quite anxious to see what the honey will taste like here because of course honey from different areas is very different."

Depending on the weather and the amount of honey the bees produce,



The beehives on the rooftop at Trinity College were installed this June.

New College's Hamlin could harvest some of the liquid gold in late September or early October.

"I leave plenty of honey for the bees," Hamlin said. "The goal is always their survival."

It's up to each group to decide how to use their harvest, whether to use the honey in promotional events, as gifts or sell it through campus farmers' markets. But although honey and bee

products "serve a wide range of medicinal and nutritional needs," said Hamlin, the bees' role as pollinators is more important to environmental health.

"The point of all this isn't to extract honey, although it would be exciting and delicious," Korman said. "Right now we're just trying to raise awareness of the importance of bees and the larger issues around food security and sustainability."

Rooftop garden feeds a community

BY ELIZABETH RAYMER

A rooftop garden is providing fresh produce to a local food bank and a community kitchen, thanks to the volunteer efforts of U of T engineering graduate students.

With help from a Live Green Toronto grant, U of T's Sky Garden has tripled in size in its second year and now features a variety of plants including tomatoes, cucumber, eggplant, zucchini, beans, basil, parsley, rosemary and lettuce. Using unique semi-hydroponic containers made by the Canadian company Biotop, the garden's organizers are projecting a yield this summer of over 100 kilograms, which will make Sky Garden, housed atop the Galbraith and Sandford Fleming buildings, one of the most productive rooftop gardens in Toronto. Seeds and seedlings are heirloom, organic and locally sourced.

"Our goal is to show how rooftop spaces can be used for urban agriculture and to reconnect people to where their food comes from," said garden co-founder **Heather Wray**, a PhD candidate in civil engineering whose research focus is drinking water. "We supply fresh, organic and locally grown vegetables to the U of T community and to our volunteers."

The Sky Garden team comprises a dozen or so volunteers from across the university who ensure the plants receive the right amount of water and fertilizer, as well as weeding, harvesting and other maintenance. Harvested vegetables are also given to the student-run vegan café Hot Yam! which serves lunch on Thursdays in the International Student Centre.

"This is a perfect example of how civil engineers can expand the use of urban infrastructure to improve our communities," said Professor **Brenda McCabe**, chair of civil engineering. "What a wonderful idea for urban sustainability."

Fears of a decline in bee pollination confirmed by U of T research

BY KIM LUKE

Widespread reports of a decline in the population of bees and other flower visiting animals have aroused fear and speculation that pollination is also likely on the decline. A recent U of T study provides the first long-term evidence of a downward trend in pollination, while also pointing to climate change as a possible contributor.

"Bee numbers may have declined at our research site, but we suspect that a climate-driven mismatch between the times when flowers open and when bees emerge from hibernation is a more important factor," said Professor **James Thomson**, a scientist with ecology and evolutionary biology.

Thomson's 17-year examination of the wild lily in the Rocky Mountains of Colorado is one of the longest term studies of pollination ever done. It reveals a progressive decline in pollination over the years, with particularly noteworthy pollination deficits early in the season. The study



A queen bumble bee collecting nectar from a flower of a glacier lily at James Thomson's study site.

appears in *Philosophical Transactions of the Royal Society B: Biological Sciences*.

Three times each year, Thomson compared the fruiting rate of unmanipulated flowers to that of flowers that are supplementally pollinated by hand. "Early in the year, when bumble bee queens are still hibernating, the fruiting rates are especially low," he said. "This is sobering because it suggests that pollination is vulnerable even in a relatively pristine environment that is free of pesticides and human disturbance but still sub-

ject to climate change."

Thomson began his long-term studies in the late 1980s after purchasing a remote plot of land and building a log cabin in the middle of a meadow full of glacier lilies. His work has been supported by the U.S. National Science Foundation and the Natural Sciences and Engineering Research Council of Canada.

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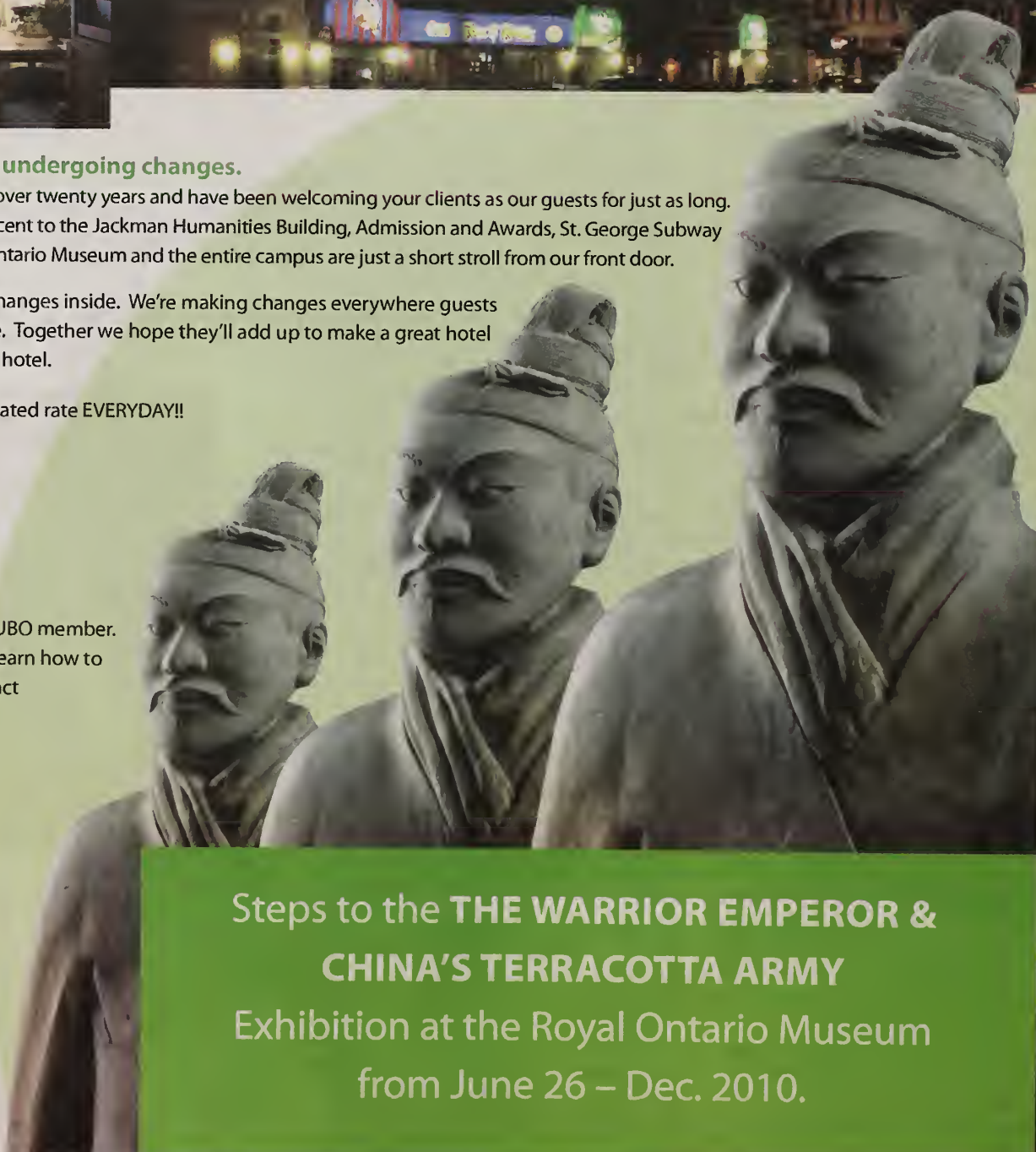
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Sustainability co-ordinator shares love of sailing

BY JENNIFER LANTHIER

Stuart Chan had just moved into his waterfront neighbourhood when he noticed a little shed with a sign inviting volunteers to help out with the Disabled Sailing Association of Ontario.

"I was curious, so one day I stopped in," Chan said. "They're always looking for volunteers who know how to sail, so they said great, let's get you out on a boat right now — and off we went."

That was three years ago.

"At first I volunteered

once, maybe

twice a week,"

said Chan, sustainability co-ordinator for the univer-

sity. "Now, every time I get off work I stop off there — I'm probably there about six days a week."

These days Chan, 27, sits on the board of the organization and goes by the title of rear-commodore. The club is on his way home so sometimes he just hangs out and chats with staff. But often he'll accompany a client on one of the club's specially adapted sailboats.

"Disabled people have limited means for getting out on the water and I have a certain skill that they're looking for, so why not?" said Chan, who started sailing at 16. "If I went straight home I'd probably just spend time on the Internet."

The club owns two 22-foot

boats for larger groups but most of its fleet consists of 16-foot boats designed to allow one person with limited mobility to sail or learn to sail in the company of another trained and licensed sailor.

"It's great for people who have limited mobility, because all the lines are in front of them so they can easily reach them," Chan said. "If they don't have mobility in their hands, there's an electronic windlass system where they can pull in the sails with a little joystick toggle."

Instead of sitting on the

sides of the dinghy, the sailors sit in the middle of the boat.

"As a companion I can sit behind the

sailor and just relax or chat with them while they sail but if they don't know how to sail I can reach around them and sail the boat from the back seat," Chan said. "And the boats are very safe — they have a lot of buoyancy foam and a big lead keel on the bottom so no matter how hard the wind is blowing they can't capsize."

Chan also volunteers with U of T's bicycling support centre, Bikechain. But the chance to share his love of sailing with others is especially gratifying.

"They usually put me in with someone who's new to the club or thinking about joining. They want somebody

who knows how to sail, knows the area, knows the club enough so that they can explain on the water what the club is about and sort of give a sales pitch."

Earlier this summer, he took a former Olympic swimmer out for what was supposed to be an introductory sail.

"They decided to send him out with me in a race," said Chan. "I had to explain everything about sailing and everything about racing in about 10 minutes and then we were racing — that was a fun challenge."

The former Olympian finished in second place and joined the club.

"Through the sailing club I discovered there are all sorts of other activities you can help out with — there's a disabled gliding club and disabled skiing clubs," Chan said. "This summer we have a Paralympic skier who's learning how to sail and she needs volunteers to help in the winter with skiing and snowboarding."

"I don't know how to ski but snowboarding is one of my other passions, so I'll be going out to volunteer this winter."

The only drawback to all this volunteering is that it keeps him in Toronto.

"My parents still live in Hong Kong and one way for my dad to entice me to go home was to say, Come sailing with me," Chan said. "But he's happy that I'm helping people."

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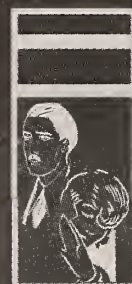
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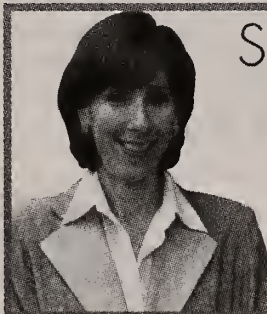
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Provence. South of France. Furnished three-bedroom house, picturesque Puylobier, 20 km from Aix. Available from July for short- or long-term rental. Please contact Beth at 416-588-2580 or b.savan@utoronto.ca; website: www.maisonprovencal.org

South of France. Furnished one-bedroom house with terrace, WiFi, washer, BBQ; sleeps 5, in picturesque Les Salces, 10 km from Lodeve and Clermont l'Herault west of Montpellier. From \$1,200/month inclusive. Contact Beth at 416-533-8844. b.savan@utoronto.ca; Website: www.homeaway.com/vacation-rental/p252988

Paris. Gare Montparnasse (14th arr), 1-bedroom, bright, spacious, located in modern building. Available, 3 months minimum. Neighbourhood of cafés, cinemas, shops. Close to Luxembourg Gardens. Remarkable location with CDG airport shuttle at door, 4 metro, several bus lines, TGV trains to Atlantic shore. Suits one person or couple, furnished and fully equipped. High-speed Internet and local phone. Available; a.chambon@utoronto.ca

Health Services

REGISTERED MASSAGE THERAPY. For relief of muscle tension, chronic pains and stress. Treatments are part of your extended health care plan. 360 Bloor St. West, Suite 504 (Bloor/Spadina). For an appointment call Mindy Hsu, B.A., R.M.T. 416-944-1312.

Feeling anxious, stressed or depressed? Relationship or self-esteem concerns? Want someone to talk with, to help sort things out? Dr. Ellen Greenberg, Psychologist, Bloor & Avenue Road or Eglinton West Subway, 416-944-3799. Covered by extended health.

Dr. Neil Pilkington (Psychologist). Assessment and individual, couples and group cognitive-behaviour therapy for: anxiety/phobias, depression/low self-esteem, stress and anger management, couples issues and sexual identity/orientation concerns. Staff/faculty healthcare benefits provide full coverage. Morning, afternoon and evening appointments. Downtown/TTC. 416-977-5666. Email dr.neil.pilkington@rogers.com

Psychotherapy for personal and relationship issues. Individual, group and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor). drhwhite@rogers.com

Evelyn Sommers, PhD, Psychologist, provides psychotherapy and counselling for individuals and couples from age 17. Covered under U of T benefits. Yonge/Bloor. Visit www.ekslibris.ca; call 416-413-1098.

Dr. Sarah Maddocks, Psychologist. Individual and marital/couples therapy. Work stress, anxiety, depression, personal and relationship concerns and problems with eating, weight and body image. U of T benefits apply. 114 Maitland Street (Wellesley & Jarvis).

416-972-1935, ext. 3321; www.drSarahMaddocks.com

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland St. (Wellesley and Jarvis). 416-570-2957.

Psychoanalysis & psychoanalytic psychotherapy for adolescents, adults, couples. U of T extended health benefits provide coverage. Dr. Klaus Wiedermann, Registered Psychologist, 1033 Bay St., ste. 204, tel: 416-962-6671.

Dr. Cindy Wahler, Registered Psychologist. Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, self-esteem. U of T extended healthcare plan covers psychological services. 416-961-0899. cwahler@sympatico.ca

Sam Minsky, PhD (Registered Psychologist). Individual and couple psychotherapy and counselling covered under U of T extended health plan. Close to downtown campus. 647-209-9516. sam.minsky@sympatico.ca

Dita Andersson Everett, PhD (Registered Psychologist). Psychotherapy with individuals and couples. Covered by university insurance plans. Located at Carrot Common, Chester Street stop on Bloor subway line. Parking also available. 416-846-8370

Licensed naturopathic doctor. Treating digestion, women's and men's health, stress, blood pressure, diabetes, chronic conditions, much more. Melanie Jacobson, ND. 208 Bloor St. W., Suite 603 (steps from St. George). Many plans cover naturopathic services. 416-920-2468.

Miscellany

Coaching and counselling for students dealing with stresses of academic and professional life, including grad student thesis, major projects and job search strategies. Special student rate. Contact Erika Engel at 416-485-9700. www.engelconsulting.ca

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LECTURES

Robots Among Us? Socially Assistive Human-Robot Interaction.

Tuesday, September 14

Prof. Maja Mataric, University of Southern California. 1180 Bahen Centre for Information Technology. 11 a.m. *Computer Science*

Geology of the Kluane Ranges and the Formation of the St. Elias Mountains, Southwest Yukon.

Wednesday, September 15

Steve Israel, Yukon Geology Survey. 2093 Earth Sciences Centre. 8 p.m. *Geology, Walker Mineralogical Club and Yukon Chamber of Commerce*

Designing and Building Technology to Empower People.

Tuesday, September 21

Prof. Richard Landner, University of Washington. 1180 Bahen Centre for Information Technology. 11 a.m. *Computer Science*

Roman Spectacle in the Greek East.

Wednesday, September 22

Hazel Dodge, Trinity College, Dublin. 1190 Bahen Centre for Information Technology. 5:15 p.m. *Archaeological Institute of America, Toronto Society and Samuel H. Kress Foundation*

SEMINARS

Allatostatin Receptors From Insects to *C. elegans* and Back.

Friday, September 17

Prof. William Bendena, Queen's University. 432 Ramsay Wright Building. 2 p.m. *Cell & Systems Biology*

Opposing Points of View: The Interpretation of Two Health Projects During the American Occupation of Japan.

Friday, September 17

Sey Nishimura, visiting affiliate, Asian Institute. 208N Munk School of Global Affairs. 2 to 4 p.m. Registration: www.munkschool.utoronto.ca. *Asian Institute*

Teaching an Inside-Out Prison Exchange Program Course: Making the Walls Porous.

Monday, September 20

Prof. Simone Davis, visiting faculty, American studies program, and Lori Pompa, Inside-Out Prison Exchange Program. 208N Munk School of Global Affairs. 2 to 6 p.m. *Study of the United States*

A Perspective on Artists' Books at the Brooklyn Museum.

Thursday, September 23

Arnold Lehman, Brooklyn Museum. George Ignatieff Theatre, 15 Devonshire Place. 4:15 p.m. *iSchool and Study of the United States*

Using Forward Genetics in Zebrafish to Probe the Mechanisms of Embryonic Motor Circuit Development.

Friday, September 24

Prof. Louis St-Amant, University of Montreal. 432 Ramsay Wright Building. 2 p.m. *Cell & Systems Biology*

Texts and Contexts for Writing a Microhistory.

Saturday, September 25

Prof. Nicholas Terpstra, history. 205 Northrop Frye Hall, Victoria College. 10 a.m. to noon. *Semiotic Circle*

MUSIC

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Thursdays at Noon.

Thursday, September 16

Lang Ning Lui, piano. Walter Hall. 12:10 p.m.

Thursday, September 23

John Kruspe, piano. Walter Hall. 12:10 p.m.

World of Music.

Sunday, September 19

Let's hear it from Beckwith: concert in honour of John Beckwith presented by New Music Concerts in collaboration with the Faculty of Music. Walter Hall. 8 p.m. Tickets \$35, seniors and arts workers \$25, students \$10.

Voice Performance Class.

Tuesday, September 28

Third- and fourth-year undergraduate students perform. Walter Hall. 12:10 p.m.

Carillon Recital.

Sunday, September 19

Gordon Slater, former Dominion carillonneur of the Peace Tower in Ottawa. Soldiers' Tower. 3 p.m. Chairs will be set up for listeners and a program will be distributed.

Sunday, September 26

Wylie Crawford of the University of Chicago. Soldiers' Tower. 3 p.m. Chairs will be set up for listeners and a program will be distributed.

PLAYS & READINGS

Richard III.

Wednesdays to Saturdays, September 15 to October 2

By William Shakespeare, directed by Jeremy Hutton. Hart House Theatre. Performances at 8 p.m.; Saturday matinee Oct. 2, 2 p.m. Tickets \$25, seniors and students \$15; Wednesdays, students \$10. Box office: 416-978-8849, www.uofttix.ca.



EXHIBITIONS

THOMAS FISHER RARE BOOK LIBRARY

Leaves of Enchantment, Bones of Inspiration: The Dawn of Chinese Studies in Canada.

To September 17

The Mu Collection, a major and significant Chinese rare book collection in North America, contains about 2,300 titles and 40,000 volumes, spanning the period from the Song Dynasty (960-1297) to the Qing Dynasty (1644-1911). The exhibition highlights the finest part of the collection with a broad coverage of subject areas; curated by Stephen Qiao, China studies librarian. Hour: Monday to Friday, 9 a.m. to 5 p.m.

U OF T ART GALLERY

Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina

M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Laidlaw Wing, University College. Gallery hours: Tuesday to Friday, noon to 5 p.m.; Saturday, noon to 4 p.m.

JUSTINA M. BARNICKE GALLERY HART HOUSE

Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Both galleries. Gallery hours: Monday to Saturday, noon to 5 p.m.

BLACKWOOD GALLERY

U OF T MISSISSAUGA

Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Gallery hours: Monday to Friday, noon to 5 p.m.; Saturday and Sunday, noon to 3 p.m.

DORIS MCCARTHY GALLERY U OF T SCARBOROUGH

Traffic: Conceptual Art in Canada 1965 to 1980.

To November 28

This exhibition, premiering at U of T's four galleries (U of T Art Centre, Justina M. Barnicke Gallery, Doris McCarthy Gallery and Blackwood Gallery), is the first major account of the development of conceptual art in Canada from the mid-1960s to 1980. Wednesday to Friday, 10 a.m. to 4 p.m.; Saturday, noon to 5 p.m.

MISCELLANY

Art to the Beat.

Thursday, September 23

An entertaining night of art and jazz; Art Connection group presentation. Recent paintings by Peter Hendrick, music by Alex Fournier jazz group from the Faculty of Music. Main Lounge and the Pub, Faculty Club. 6 to 9 p.m.

Gender and Political Violence: A Conversation with Dedé Mirabal.

Thursday, September 23

Screening of *Code Name: Butterflies* (www.codenamebutterflies.org/), followed by Dedé Mirabal, the surviving Mirabal sister, who will speak in Spanish; translation will be provided. Innis Town Hall. 7:30 p.m. *Spanish & Portuguese, Caribbean Studies, Latin American Studies, Women & Gender Studies Institute, Comparative Literature and Arts & Science*

Victoria College Book Sale.

Thursday, September 23 to Monday, September 27

More than 50,000 books will be on sale in categories ranging from mystery to history, cooking to Canadiana; proceeds to Victoria University Library. Alumni Hall and the Chapel, Old Victoria College Building. Thursday 4 to 9 p.m. (\$5, students free with ID.) Friday and Monday, 10 a.m. to 8 p.m.; Saturday and Sunday, 11 a.m. to 6 p.m.

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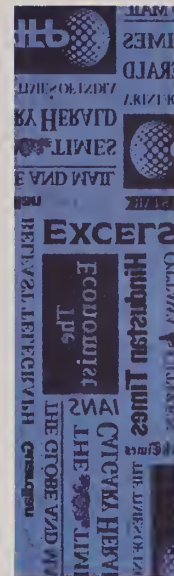
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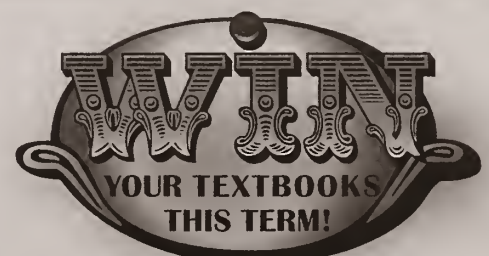


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WHY am I a lecturer?

A love of teaching motivates geologist

BY CHARLY BANK

It is the middle of August, the hallways are silent, I am preparing for a new academic year. The silence does not feel right; I miss the buzz of voices, students in my office asking advice, lively discussions before a midterm or assignment due date. I am a teacher, a lecturer in earth sciences. I chose to teach rather than continue on the research stream that would have logically followed my completion of a PhD. Why? Because I care deeply for the subject, for the students and for their learning.

I want to convey the excitement for my subject and convince others about the importance of earth science. In 2010 we have witnessed three major natural disasters: an earthquake in Haiti, a mudslide in China and flooding in Pakistan. Clearly earth scientists are needed to help prepare for such disasters and provide input to other problems like drinking water safety, nuclear waste disposal, energy production, climate change, environmental issues and sustainable resource extraction. But universities are currently not producing enough graduates to fill a yawning gap in the labour market.

Furthermore, a basic understanding of earth science issues is necessary for all citizens to take part in such decisions. Two perspectives on natural disasters are particularly important. First, natural disasters are man-made; the poor and less advantaged are always hit harder than the rich. Second, our planet did experience huge catastrophes in the past: climate shifted from freezing cold to scorching heat, volcanic eruptions covered large areas with molten rock, meteorites blasted holes 20 kilometres deep. Through all this, Earth and the life it has harboured for more than 3.5 billion years did survive. Therefore, no matter what we do as humans, we will not be able to destroy this planet. However, we may make it inhabitable for us. Earth science has important concepts to teach.

Teaching allows me to meet and work with a wide range of people:

students, faculty and staff. This summer I spent a total of six weeks abroad on research with undergraduate students. For three weeks I assisted a student in collecting data for his undergraduate thesis on the north coast of Peru; during the next three weeks I took six students to Turkey. Both projects had been initiated by archeologists and allowed us to interact with experts from a different field of study and with different cultures.

If I count Quebec as a separate nation, then my seven undergraduate students and I hail from eight different nations. We thus were a representative sample of this diverse university, and it is this diversity that makes our institution an interesting place to study.

I may not share much research interest with a faculty member from history or philosophy or computer science or French but a common interest in teaching provides me with opportunities to interact with faculty and staff from across disciplines and from across the university. We can share what works in our classes and discuss new ways of teaching across disciplines or departmental boundaries.

University teaching has experienced profound changes in the recent

past. While professors in the 20th century gave presentations during lectures ("the sage on the stage") and set tests and exams, the 21st century challenges instructors to try different modes of instruction, experiment with technology and manage large classes. The student population has not only grown but has become more diverse in terms of its ethnicity, preparation and abilities. Professors can no longer assume that their students have similar backgrounds and learning styles to their own. Neither is it a given that their graduates have an easy time finding employment.

The university is no longer the "ivory tower" to educate a small elite; instead universities are asked to provide a service to a large group, compete for funding and be accountable to society. As a consequence, university teaching has shifted its focus to learning (not just of knowledge but also of skills like writing or quantitative reasoning) and has become a scholarly pursuit. An instructor today needs to ask what activities have worked and how best to facilitate student learning. At the same time teaching has also become an area of scholarship where teaching is treated as a research endeavour

in its own right; this is evidenced by a flood of peer-reviewed articles in journals devoted to university teaching in general and on teaching in specific fields. Effective instructors have to remain abreast of current thoughts on teaching and must communicate with other instructors to learn about best practices and their students' needs.

I am often asked, When will U of T offer you a professorship? or even Is it not a waste that you did a PhD and now teach? To this I reply that I already am a professor and that a PhD has put me on the path of teaching. True, lecturers are often seen as inferior to tenure-track professors, with lower pay and prohibitions against applying for outside research funding. Yet I can offer more research experience — from fieldwork in exotic places to presenta-

tions at international meetings — to our undergraduates than my tenure-track colleagues who have responsibilities supervising graduate students and attracting money, as well as high expectations to publish. My PhD research has taught me to ask relevant questions and present my reasoning and provided me with insights into the discipline; these I bring into my classroom. It also allows me to pursue teaching as a research activity because I constantly test hypotheses related to student learning.

Learning and research thus interact in multiple ways. Together they form the core of a university's mission. Both are needed to advance knowledge and their separation is artificial.

Some day the university may end the differentiation of its faculty into professors and lecturers. But I will not wait until that happens to discuss with my students the relevance of earth science in their lives. And in so doing I want to facilitate their learning and share with them my excitement of research. That's why I am a lecturer.

Charly Bank, PhD, is a senior lecturer and associate chair of undergraduate studies in the Department of Geology.

